

# RRZZ-65A-R4



8-port sector antenna, 4x 694–960 and 4x 1427–2690 MHz, 65° HPBW, 4x RET

- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios

This product will be discontinued on: November 30, 2024

Replaced By:

RRZZ-65A-R4N43      8-port sector antenna, 4 x 694–960, 4 x 1427–2690 MHz, 65° HPBW, 4x RET

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Multiband
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage   Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
<b>Radome Material</b>	Fiberglass, UV resistant
<b>Radiator Material</b>	Low loss circuit board
<b>Reflector Material</b>	Aluminum
<b>RF Connector Interface</b>	4.3-10 Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, high band</b>	4
<b>RF Connector Quantity, low band</b>	4
<b>RF Connector Quantity, total</b>	8

## Remote Electrical Tilt (RET) Information

<b>RET Hardware</b>	CommRET v2
<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	2 female   2 male
<b>Input Voltage</b>	10–30 Vdc

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<b>Internal RET</b>	High band (2)   Low band (2)
<b>Power Consumption, idle state, maximum</b>	1 W
<b>Power Consumption, normal conditions, maximum</b>	8 W
<b>Protocol</b>	3GPP/AISG 2.0 (Single RET)

## Dimensions

<b>Width</b>	498 mm   19.606 in
<b>Depth</b>	197 mm   7.756 in
<b>Length</b>	1499 mm   59.016 in
<b>Net Weight, without mounting kit</b>	33 kg   72.752 lb

## Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxxxxR1
R2	694-960	3-4	2	CPxxxxxxxxxxxxxxxxR2
Y1	1427-2690	5-6	3	CPxxxxxxxxxxxxxxxxY1
Y2	1427-2690	7-8	4	CPxxxxxxxxxxxxxxxxY2

Left Bottom Right

(Sizes of colored boxes are not true depictions of array sizes)

## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1427 – 2690 MHz   694 – 960 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	900 W @ 50 °C

## Electrical Specifications

Frequency Band, MHz	694–790	790–890	890–960	1427–1518	1695–1920	1920–2180	2300–2500	2500–2690
<b>Gain, dBi</b>	13.6	13.9	13.9	15.4	16.8	17.1	17.4	17.2

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<b>Beamwidth, Horizontal, degrees</b>	68	68	62	64	59	61	61	64
<b>Beamwidth, Vertical, degrees</b>	16.2	14.3	13	9.2	7.6	6.9	5.9	5.6
<b>Beam Tilt, degrees</b>	2-16	2-16	2-16	2-12	2-12	2-12	2-12	2-12
<b>USLS (First Lobe), dB</b>	19	18	17	19	19	17	18	15
<b>Front-to-Back Ratio at 180°, dB</b>	31	31	32	34	35	36	34	33
<b>Isolation, Cross Polarization, dB</b>	28	28	28	26	28	28	28	28
<b>Isolation, Inter-band, dB</b>	28	28	28	27	28	28	28	28
<b>VSWR   Return loss, dB</b>	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-150	-150	-150	-150	-150	-150	-150	-150
<b>Input Power per Port at 50°C, maximum, watts</b>	300	300	300	250	250	250	200	200

## Electrical Specifications, BASTA

Frequency Band, MHz	694-790	790-890	890-960	1427-1518	1695-1920	1920-2180	2300-2500	2500-2690
<b>Gain by all Beam Tilts, average, dBi</b>	13.1	13.4	13.6	15	16.4	16.7	17.1	16.8
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.7	±0.6	±0.6	±0.7	±0.6	±0.4	±0.4	±0.7
<b>Gain by Beam Tilt, average, dBi</b>	2° 13.2 10° 13.1 18° 12.9	2° 13.4 10° 13.4 18° 13.1	2° 13.7 10° 13.7 18° 13.2	2° 15.0 7° 15.0 12° 14.7	2° 16.4 7° 16.5 12° 16.1	2° 16.6 7° 16.8 12° 16.4	2° 16.8 7° 17.2 12° 17.0	2° 16.4 7° 17.0 12° 16.5
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±5.3	±5.6	±6	±5	±4.9	±3.2	±5.9	±6.4
<b>Beamwidth, Vertical Tolerance, degrees</b>	±1.5	±1.2	±1	±0.5	±0.6	±0.6	±0.3	±0.3
<b>USLS, beampeak to 20° above beampeak, dB</b>				16	17	16	15	14
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	20	20	22	24	29	28	27	26
<b>CPR at Boresight, dB</b>	23	21	22	17	19	20	18	17
<b>CPR at Sector, dB</b>	10	6	8	8	10	6	7	3

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	549.0 N @ 150 km/h (123.4 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	183.0 N @ 150 km/h (41.1 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	712.0 N @ 150 km/h (160.1 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	452.0 N @ 150 km/h (101.6 lbf @ 150 km/h)

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**Wind Speed, maximum** 241 km/h (150 mph)

## Packaging and Weights

**Width, packed** 565 mm | 22.244 in

**Depth, packed** 368 mm | 14.488 in

**Length, packed** 1685 mm | 66.339 in

**Weight, gross** 46.2 kg | 101.853 lb

## Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted



## Included Products

- BSAMNT-3 – Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

## \* Footnotes

**Performance Note** Severe environmental conditions may degrade optimum performance

# BSAMNT-3



Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

## Product Classification

**Product Type** Downtilt mounting kit

## General Specifications

**Application** Outdoor

**Color** Silver

## Dimensions

**Compatible Diameter, maximum** 115 mm | 4.528 in

**Compatible Diameter, minimum** 60 mm | 2.362 in

**Weight, net** 6.2 kg | 13.669 lb

## Material Specifications

**Material Type** Galvanized steel

## Packaging and Weights

**Included** Brackets | Hardware

**Packaging quantity** 1

**Weight, gross** 6.4 kg | 14.11 lb

## Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant

# BSAMNT-3

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